Testing Java Microservices

Testing Java MicroservicesTesting Java MicroservicesHands-On Microservices – Monitoring and TestingEnterprise Java MicroservicesCracking Spring Microservices InterviewsMastering Microservices with Java 9Hands-on Application Development using Spring BootMastering Microservices with JavaLearn Microservices with Spring BootBuilding Microservices with Micronaut®Microservices with Spring Boot and Spring CloudIntroducing MicronautMicroservices TestingCloud Native Microservices with Spring and KubernetesMicroservices PatternsSpring: Microservices with Spring BootSRE with Java MicroservicesLearn Microservices with Spring Boot 3Full Stack Development with JHipsterHands-On Microservices with Spring Boot and Spring Cloud Jason Porter Andy Porter Dinesh Rajput Kenneth Finnigan Munish Chandel Sourabh Sharma Shagun Bakliwal Sourabh Sharma Moises Macero Nirmal Singh Magnus Larsson Todd Raymond Sharp Aditya Pratap Bhuyan Rajiv Srivastava Chris Richardson Ranga Rao Karanam Jonathan Schneider Moisés Macero García Deepu K. Sasidharan Magnus Larsson

Testing Java Microservices Testing Java Microservices Hands-On Microservices – Monitoring and Testing Enterprise Java Microservices Cracking Spring Microservices Interviews Mastering Microservices with Java 9 Hands-on Application Development using Spring Boot Mastering Microservices with Java Learn Microservices with Spring Boot Building Microservices with Micronaut® Microservices with Spring Boot and Spring Cloud Introducing Micronaut Microservices Testing Cloud Native Microservices with Spring and Kubernetes Microservices Patterns Spring: Microservices with Spring Boot SRE with Java Microservices Learn Microservices with Spring Boot 3 Full Stack Development with JHipster Hands-On Microservices with Spring Boot and Spring Cloud *Jason Porter Andy Porter Dinesh Rajput Kenneth Finnigan Munish Chandel Sourabh Sharma Shagun Bakliwal Sourabh Sharma Moises Macero Nirmal Singh Magnus Larsson Todd Raymond Sharp Aditya Pratap Bhuyan Rajiv Srivastava Chris Richardson Ranga Rao Karanam Jonathan Schneider Moisés Macero García Deepu K. Sasidharan Magnus Larsson*

summary testing java microservices teaches you to implement unit and integration tests for

microservice systems running on the jvm you ll work with a microservice environment built using java ee wildfly swarm and docker you ll learn how to increase your test coverage and productivity and gain confidence that your system will work as you expect purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology microservice applications present special testing challenges even simple services need to handle unpredictable loads and distributed message based designs pose unique security and performance concerns these challenges increase when you throw in asynchronous communication and containers about the book testing java microservices teaches you to implement unit and integration tests for microservice systems running on the jvm you ll work with a microservice environment built using java ee wildfly swarm and docker you ll advance from writing simple unit tests for individual services to more advanced practices like chaos or integration tests as you move towards a continuous delivery pipeline you ll also master live system testing using technologies like the arquillian wiremock and mockito frameworks along with techniques like contract testing and over the wire service virtualization master these microservice specific practices and tools and you ll greatly increase your test coverage and productivity and gain confidence that your system will work as you expect what s inside test automation integration testing microservice systems testing container centric systems service virtualization about the reader written for java developers familiar with java ee ee4j spring or spring boot about the authors alex soto bueno and jason porter are arquillian team members andy gumbrecht is an apache tomee developer and pmc they all have extensive enterprise testing experience table of contents an introduction to microservices application under test unit testing microservices component testing microservices integration testing microservices contract tests end to end testing docker and testing service virtualization continuous delivery in microservices

testing java microservices teaches you to implement unit and integration tests for microservice systems running on the jvm youll work with a microservice environment built using java ee wildfly swarm and docker youll learn how to increase your test coverage and productivity and gain confidence that your system will work as you expect about the technology microservice applications present special testing challenges even simple services need to handle unpredictable loads and distributed message based designs pose unique security and performance concerns these challenges increase when you throw in asynchronous communication and containers about the book testing java microservices

Testing Java Microservices

teaches you to implement unit and integration tests for microservice systems running on the jvm youll work with a microservice environment built using java ee wildfly swarm and docker youll advance from writing simple unit tests for individual services to more advanced practices like chaos or integration tests as you move towards a continuous delivery pipeline youll also master live system testing using technologies like the arquillian wiremock and mockito frameworks along with techniques like contract testing and over the wire service virtualization master these microservice specific practices and tools and youll greatly increase your test coverage and productivity and gain confidence that your system will work as you expect whats inside test automation integration testing microservice systems testing container centric systems service virtualization about the reader written for java developers familiar with java ee ee4j spring or spring boot about the authors alex soto bueno and jason porter are arquillian team members andy gumbrecht is an apache tomee developer and pmc they all have extensive enterprise testing experience

learn and implement various techniques related to testing monitoring and optimization for microservices architecture key featureslearn different approaches for testing microservices to design and implement robust and secure applicationsbecome more efficient while working with microservicesexplore testing and monitoring tools such as jmeter ready api and appdynamicsbook description microservices are the latest right way of developing web applications microservices architecture has been gaining momentum over the past few years but once you ve started down the microservices path you need to test and optimize the services this book focuses on exploring various testing monitoring and optimization techniques for microservices the book starts with the evolution of software architecture style from monolithic to virtualized to microservices architecture then you will explore methods to deploy microservices and various implementation patterns with the help of a real world example you will understand how external apis help product developers to focus on core competencies after that you will learn testing techniques such as unit testing integration testing functional testing and load testing next you will explore performance testing tools such as jmeter and gatling then we deep dive into monitoring techniques and learn performance benchmarking of the various architectural components for this you will explore monitoring tools such as appdynamics dynatrace aws cloudwatch and nagios finally you will learn to identify address and report various performance issues related to microservices what you will learnunderstand the architecture of microservices and how to

build servicesestablish how external apis help to accelerate the development processunderstand testing techniques such as unit testing integration testing end to end testing and ui functional testingexplore various tools related to the performance testing monitoring and optimization of microservicesdesign strategies for performance testing identify performance issues and fine tune performancewho this book is for this book is for developers who are involved with microservices architecture to develop robust and secure applications basic knowledge of microservices is essential in order to get the most out of this book

summary enterprise java microservices is an example rich tutorial that shows how to design and manage large scale java applications as a collection of microservices purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the technology large applications are easier to develop and maintain when you build them from small simple components java developers now enjoy a wide range of tools that support microservices application development including right sized app servers open source frameworks and well defined patterns best of all you can build microservices applications using your existing java skills about the book enterprise java microservices teaches you to design and build jvm based microservices applications you ll start by learning how microservices designs compare to traditional java ee applications always practical author ken finnigan introduces big picture concepts along with the tools and techniques you ll need to implement them you ll discover ecosystem components like netflix hystrix for fault tolerance and master the just enough application server jeas approach to ensure smooth operations you ll also examine monitoring security testing and deploying to the cloud what s inside the microservices mental model cloud native development strategies for fault tolerance and monitoring securing your finished applications about the reader this book is for java developers familiar with java ee about the author ken finnigan leads the thorntail project at red hat which seeks to make developing microservices for the cloud with java and java ee as easy as possible table of contents part 1 microservices basics enterprise java microservices developing a simple restful microservice just enough application server for microservices microservices testing cloud native development part 2 implementing enterprise java microservices consuming microservices discovering microservices for consumption strategies for fault tolerance and monitoring securing a microservice architecting a microservice hybrid data streaming with

apache kafka

this ebook discusses 100 plus real problems and their solutions for microservices architecture based on spring boot spring cloud cloud native applications it covers core concepts of microservices architecture various design patterns interview questions answers security in microservices testing strategies and best practices in distributed system design table of contents 1 core concepts related spring powered microservices architecture 2 introduction to spring boot spring cloud cloud native applications netflix oss 3 design patterns in microservices architecture api gateway hystrix etc 4 100 plus interview questions 5 security oauth2 and jwt 6 testing strategies in microservices architecture 7 best practices and common pitfalls

master the art of implementing scalable microservices in your production environment with ease about this book use domain driven design to build microservices use spring cloud to use service discovery and registeration use kafka avro and spring streams for implementing event based microservices who this book is for this book is for java developers who are familiar with the microservices architecture and now wants to take a deeper dive into effectively implementing microservices at an enterprise level a reasonable knowledge level and understanding of core microservice elements and applications is expected what you will learn use domain driven design to design and implement microservices secure microservices using spring security learn to develop rest service development deploy and test microservices troubleshoot and debug the issues faced during development learning best practices and common principals about microservices in detail microservices are the next big thing in designing scalable easy to maintain applications it not only makes app development easier but also offers great flexibility to utilize various resources optimally if you want to build an enterprise ready implementation of the microservices architecture then this is the book for you starting off by understanding the core concepts and framework you will then focus on the high level design of large software projects you will gradually move on to setting up the development environment and configuring it before implementing continuous integration to deploy your microservice architecture using spring security you will secure microservices and test them effectively using rest java clients and other tools like rxjava 2 0 we ll show you the best patterns practices and common principals of microservice design and you ll learn to troubleshoot and debug the issues faced during development we ll show you how to design and

implement reactive microservices finally we ll show you how to migrate a monolithic application to microservices based application by the end of the book you will know how to build smaller lighter and faster services that can be implemented easily in a production environment style and approach this book starts from the basics including environment setup and provides easy to follow steps to implement the sample project using microservices

a pragmatic guide for java developers to help build microservices and cloud apps using spring boot key features develops microservices from start to finish using the spring boot framework creates cloud native applications using spring boot s production ready features covers the api gateway unit testing cloud deployments and managing high traffic applications description spring is an excellent framework for developing both web and cloud native applications this book on application development using spring boot simplifies the process of writing boilerplate code for complex software it allows developers to concentrate on the application s concept rather than on the internal java configuration this book will guide you on how to make the best use of the strength that spring boot provides you ll gain an understanding of how spring boot configuration works in conjunction with application development including auto configuration and overriding default configurations you will learn to develop scalable dependable microservices to accelerate the development lifecycle of a cloud based application each chapter will walk you through the features of spring boot as a software development framework such as performing create read update and delete crud operations on a database and securing web services with appropriate logging by the end of this book you will develop test and deploy applications ready for production and how to establish them as cloud based applications the readers will also gain the expertise of writing unit and integration test cases what you will learn get to know spring boot and all its capabilities build start to end production ready applications explore the api gateway and practice how to run request routing learn api doc tools like swagger and host your apps on cloud practice how to balance the application s load when the system is under high traffic learn to write unit tests and integration tests for bug free coding who this book is for this book is for java developers who want to quickly develop test and deploy production ready applications this book will also appeal to cloud native application developers and cloud engineers no prior spring boot knowledge is required as the basics are covered in the book table of contents 1 getting started with spring boot 2 developing

your first spring boot application 3 spring boot starter dependencies and auto configuration 4 spring boot annotations 5 working with spring data jpa and caching 6 building restful microservices 7 securing a application 8 building resilient system 9 logging 10 working with the swagger api management tool 11 testing a spring boot application 12 deploying a spring boot application

build a microservices architecture with spring boot by evolving an application from a small monolith to an event driven architecture composed of several services this book follows an incremental approach to teach microservice structure test driven development eureka ribbon zuul and end to end tests with cucumber author moises macero follows a very pragmatic approach to explain the benefits of using this type of software architecture instead of keeping you distracted with theoretical concepts he covers some of the state of the art techniques in computer programming from a practical point of view you ll focus on what s important starting with the minimum viable product but keeping the flexibility to evolve it what you ll learn build microservices with spring boot use event driven architecture and messaging with rabbitmq create restful services with spring master service discovery with eureka and load balancing with ribbon route requests with zuul as your api gateway write end to end rests for an event driven architecture using cucumber carry out continuous integration and deployment who this book is for those with at least some prior experience with java programming some prior exposure to spring boot recommended but not required

explore different aspects of building modular microservices such as development testing maintenance and deployment using the micronaut framework key featureslearn how to build scalable fast and resilient microservices with this concise guideexplore the many advantages of using reflection free compile time dependency injections and aspect oriented programmingbuild cloud native applications easily with the micronaut frameworkbook description the open source micronaut framework is a jvm based toolkit designed to create microservices quickly and easily this book will help full stack and java developers build modular high performing and reactive microservice based apps using the micronaut framework you ll start by building microservices and learning about the core components such as ahead of time compilation reflection less dependency injection and reactive baked in http clients and servers next you will work on a real time microservice application and learn how to integrate micronaut projects with different kinds of relational and non relational databases you ll also learn how to employ different security mechanisms to safeguard your

microservices and integrate microservices using event driven architecture in the apache kafka ecosystem as you advance you ll get to grips with automated testing and popular testing tools the book will help you understand how you can easily handle microservice concerns in micronaut projects such as service discovery api documentation distributed configuration management fallbacks and circuit breakers finally you ll explore the deployment and maintenance aspects of microservices and get up to speed with the internet of things iot using the framework by the end of this book you ll be able to build test deploy and maintain your own microservice apps using the framework what you will learnunderstand why the micronaut framework is best suited for building microservicesbuild web endpoints and services in the micronaut frameworksafeguard microservices using session jwt and oauth in micronaut projectsget to grips with event driven architecture in micronaut applicationsdiscover how to automate testing at various levels using built in tools and testing frameworksdeploy your microservices to containers and cloud platformsbecome well versed with distributed logging tracing and monitoring in micronaut projectsget hands on with the iot using alexa and the micronaut frameworkwho this book is for this book is for developers who have been building microservices on traditional frameworks such as spring boot and are looking for a faster alternative intermediate level knowledge of java programming and implementing web services development in java is required

a step by step guide to creating and deploying production quality microservices based applications key featuresbuild cloud native production ready microservices with this comprehensively updated guideunderstand the challenges of building large scale microservice architectureslearn how to get the best out of spring cloud kubernetes and istio in combinationbook description with this book you ll learn how to efficiently build and deploy microservices this new edition has been updated for the most recent versions of spring java kubernetes and istio demonstrating faster and simpler handling of spring boot local kubernetes clusters and istio installation the expanded scope includes native compilation of spring based microservices support for mac and windows with wsl2 and an introduction to helm 3 for packaging and deployment a revamped security chapter now follows the oauth 2 1 specification and makes use of the newly launched spring authorization server from the spring team starting with a set of simple cooperating microservices you ll add persistence and resilience make your microservices reactive and document their apis using openapi you ll understand how fundamental design patterns are

applied to add important functionality such as service discovery with netflix eureka and edge servers with spring cloud gateway you ll learn how to deploy your microservices using kubernetes and adopt istio you ll explore centralized log management using the elasticsearch fluentd and kibana efk stack and monitor microservices using prometheus and grafana by the end of this book you ll be confident in building microservices that are scalable and robust using spring boot and spring cloud what you will learnbuild reactive microservices using spring bootdevelop resilient and scalable microservices using spring clouduse oauth 2 1 oidc and spring security to protect public apisimplement docker to bridge the gap between development testing and productiondeploy and manage microservices with kubernetesapply istio for improved security observability and traffic managementwrite and run automated microservice tests with junit testcontainers gradle and bashwho this book is for if you are a java or spring boot developer who wants to learn how to build microservice landscapes from scratch this book is for you no familiarity with microservices architecture is required

the microservice architecture has been adopted by many developer teams around the world to be successful it s crucial that you understand how to program a microservice and get it running in the cloud this book will walk you through the process of how to build test and deploy a java based micronaut microservice to the oracle cloud with github actions you ll learn how to create a virtual machine with both the oracle cloud infrastructure oci cli and the oci gradle plugin as well as create and deploy the microservice as a docker container that can be stored in oracle container infrastructure registry ocir and deployed to an oracle kubernetes engine oke cluster the microservice will use micronaut data for persistence testcontainers for testing and liquibase to manage your oracle db production schema after reading or using this book you ll be able to build test and deploy your first microservices using the micronaut framework oracle cloud and more what you ll learn build and deploy java based microservices using micronaut and oracle cloud run tests and publishing reports deploy to oracle cloud using oci cli and the oci gradle plug in add a persistence tier to the microservice distribute a microservice with persistence who this book is for programmers and software developers with experience in java and microservices programming who are new to micronaut

in the rapidly evolving world of software development microservices architecture has emerged as a transformative approach offering unparalleled scalability flexibility and

resilience however with these advantages come significant challenges particularly in ensuring that complex distributed systems function seamlessly and reliably microservices testing ensuring robust and fault tolerant architectures is your comprehensive guide to mastering the art and science of testing in a microservices environment this book dives deep into the intricacies of microservices testing providing a detailed roadmap for developers testers and architects aiming to build robust fault tolerant systems it starts with the fundamentals explaining what microservices are and why they matter the book then progresses to advanced testing strategies covering every aspect of the testing lifecycle from unit testing to end to end testing performance testing and security testing readers will gain insights into the unique challenges of testing microservices such as handling service dependencies ensuring reliable communication between services and maintaining system integrity under load the book emphasizes the importance of automation continuous integration and continuous delivery showing how these practices can be effectively integrated into your testing strategy to enhance efficiency and reliability each chapter is filled with practical examples real world case studies and actionable advice learn how industry leaders like netflix and amazon have successfully implemented microservices testing to maintain their competitive edge explore tools and frameworks such as junit mockito and service meshes that can help you streamline your testing processes in addition to technical guidance microservices testing ensuring robust and fault tolerant architectures also addresses the human and organizational aspects of testing discover how to foster a culture of collaboration and shared responsibility between development testing and operations teams understand the importance of monitoring and observability in maintaining a healthy microservices ecosystem whether you are transitioning from a monolithic architecture or refining your existing microservices framework this book provides the knowledge and tools you need to succeed by the end of this comprehensive guide you will be equipped to design and implement effective testing strategies that ensure your microservices are robust fault tolerant and ready to meet the demands of today s dynamic digital landscape embark on your journey to mastering microservices testing with microservices testing ensuring robust and fault tolerant architectures and build systems that stand the test of time

build and deploy scalable cloud native microservices using the spring framework and kubernetes key features complete coverage on how to design build run and deploy modern

cloud native microservices includes numerous sample code exercises on microservices spring and kubernetes develop a stronghold on kubernetes spring and the microservices architecture complete guide of application containerization on kubernetes containers coverage on managing modern applications and infrastructure using observability tools description the main objective of this book is to give an overview of cloud native microservices their architecture design patterns best practices real use cases and practical coverage of modern applications this book covers a strong understanding of the fundamentals of microservices api first approach testing observability api gateway service mesh and kubernetes alternatives of spring cloud this book covers the implementation of various design patterns of developing cloud native microservices using spring framework docker and kubernetes libraries it covers containerization concepts and hands on lab exercises like how to build run and manage microservices applications using kubernetes after reading this book the readers will have a holistic understanding of building running and managing cloud native microservices applications on kubernetes containers what you will learn learn fundamentals of microservice and design patterns learn microservices development using spring boot and kubernetes learn to develop reactive event driven and batch microservices perform end to end microservices testing using cucumber implement api gateway authentication authorization load balancing caching rate limiting learn observability and monitoring techniques of microservices who this book is for this book is for the spring developers microservice developers cloud engineers devops consultants technical architect and solution architects who have some familiarity with application development docker and kubernetes containers table of contents 1 overview of cloud native microservices 2 microservice design patterns 3 api first approach 4 build microservices using the spring framework 5 batch microservices 6 build reactive and event driven microservices 7 the api gateway security and distributed caching with redis 8 microservices testing and api mocking 9 microservices observability 10 containers and kubernetes overview and architecture 11 run microservices on kubernetes 12 service mesh and kubernetes alternatives of spring cloud

a comprehensive overview of the challenges teams face when moving to microservices with industry tested solutions to these problems tim moore lightbend 44 reusable patterns to develop and deploy reliable production quality microservices based applications with worked examples in java key features 44 design patterns for building and deploying

microservices applications drawing on decades of unique experience from author and microservice architecture pioneer chris richardson a pragmatic approach to the benefits and the drawbacks of microservices architecture solve service decomposition transaction management and inter service communication purchase of the print book includes a free ebook in pdf kindle and epub formats from manning publications about the book microservices patterns teaches you 44 reusable patterns to reliably develop and deploy production quality microservices based applications this invaluable set of design patterns builds on decades of distributed system experience adding new patterns for composing services into systems that scale and perform under real world conditions more than just a patterns catalog this practical guide with worked examples offers industry tested advice to help you design implement test and deploy your microservices based application what you will learn how and why to use microservices architecture service decomposition strategies transaction management and querying patterns effective testing strategies deployment patterns this book is written for written for enterprise developers familiar with standard enterprise application architecture examples are in java about the author chris richardson is a java champion a javaone rock star author of manning s pojos in action and creator of the original cloudfoundry com table of contents escaping monolithic hell decomposition strategies interprocess communication in a microservice architecture managing transactions with sagas designing business logic in a microservice architecture developing business logic with event sourcing implementing queries in a microservice architecture external api patterns testing microservices part 1 testing microservices part 2 developing production ready services deploying microservices refactoring to microservices

unlock the power of spring boot to build and deploy production ready microservices key features get to know the advanced features of spring boot in order to develop and monitor applications use spring cloud to deploy and manage microservices on the cloud look at embedded servers and deploy a test application to a paas cloud platform embedded with assessments that will help you revise the concepts you have learned in this book book description microservices helps in decomposing applications into small services and move away from a single monolithic artifact it helps in building systems that are scalable flexible and high resilient spring boot helps in building rest oriented production grade microservices this book is a quick learning guide on how to build monitor and deploy microservices with spring boot you ll be first familiarized with spring boot before delving into building

microservices you will learn how to document your microservice with the help of spring rest docs and swagger documentation you will then learn how to secure your microservice with spring security and oauth2 you will deploy your app using a self contained http server and also learn to monitor a microservice with the help of spring boot actuator this book is ideal for java developers who knows the basics of spring programming and want to build microservices with spring boot this book is embedded with useful assessments that will help you revise the concepts you have learned in this book what you will learn use spring initializr to create a basic spring project build a basic microservice with spring boot implement caching and exception handling secure your microservice with spring security and oauth2 deploy microservices using self contained http server monitor your microservices with spring boot actuator learn to develop more effectively with developer tools who this book is for this book is aimed at java developers who knows the basics of spring programming and want to build microservices with spring boot

in a microservices architecture the whole is indeed greater than the sum of its parts but in practice individual microservices can inadvertently impact others and alter the end user experience effective microservices architectures require standardization on an organizational level with the help of a platform engineering team this practical book provides a series of progressive steps that platform engineers can apply technically and organizationally to achieve highly resilient java applications author jonathan schneider covers many effective sre practices from companies leading the way in microservices adoption you ll examine several patterns discovered through much trial and error in recent years complete with java code examples chapters are organized according to specific patterns including application metrics monitoring for availability with micrometer debugging with observability logging and distributed tracing failure injection testing charting and alerting building effective charts kpis for java microservices safe multicloud delivery spinnaker deployment strategies and automated canary analysis source code observability dependency management api utilization and end to end asset inventory traffic management concurrency of systems platform gateway and client side load balancing

build java based microservices architecture using the spring boot 3 framework by evolving an application from a small monolith to an event driven architecture composed of several services this revised book follows an incremental approach in teaching the structure of microservices test driven development eureka ribbon zuul and end to end tests with

cucumber this updated book now covers what s been added to the new spring boot 3 release including support for the latest java se lts changes to the stream editor ui maven preemptive authentication building docker images using cloud native build packs building layered jars for optimized docker images e2e traceability for configuration properties many dependency upgrades support for spring data neumann and more author moises macero uses a pragmatic approach to explain the benefits of using this type of software architecture instead of keeping you distracted with theoretical concepts he covers some of the state of the art techniques in computer programming from a practical point of view you ll focus on what s important starting with the minimum viable product but keeping the flexibility to evolve it what you will learn build microservices with spring boot 3 use event driven architecture and messaging with rabbitmq master service discovery with eureka and load balancing with ribbon route requests with zuul as your api gateway write end to end tests for an event driven architecture using cucumber carry out continuous integration and deployment who this book is for those with at least some prior experience with java programming some prior exposure to spring boot recommended but not required

discover the world of full stack development with real world examples key features leverage the full power of the jhipster platform to build complex web applications create microservices from scratch and convert jhipster monolith apps into microservices build and deploy applications locally in docker and on various cloud platforms book description jhipster is a development platform to generate develop and deploy spring boot and angular react applications and spring microservices it provides you with a variety of tools that will help you quickly build modern web applications this book will be your guide to building full stack applications with spring and angular using the jhipster tool set you will begin by understanding what jhipster is and the various tools and technologies associated with it you will learn the essentials of a full stack developer before getting hands on and building a monolithic web application with jhipster from here you will learn the jhipster domain language with entity modeling and entity creation using jdl and jdl studio moving on you will be introduced to client side technologies such as angular and bootstrap and will delve into technologies such as spring security spring mvc and spring data you will learn to build and package apps for production with various deployment options such as heroku and more during the course of the book you will be introduced to microservice server side technologies and how to break your monolithic application with a database of your choice

next the book takes you through cloud deployment with microservices on docker and kubernetes going forward you will learn to build your client side with react and master jhipster best practices by the end of the book you will be able to leverage the power of the best tools available to build modern web applications what you will learn build business logic by creating and developing entity models us the jhipster domain language customize web applications with angular bootstrap and spring tests and continuous integration with jenkins utilize the jhipster microservice stack which includes netflix eureka spring cloud config hashicorp consul and so on understand advanced microservice concepts such as api rout load balancing rate limit circuit break centralized configuration server jwt authentication and more run microservices locally using docker and kubernetes in production who this book is for this book will appeal to developers who would like to build modern web applications quickly a basic knowledge of the spring ecosystem would be an added advantage

apply microservices patterns to build resilient and scalable distributed systems key features understand the challenges of building large scale microservice landscapes build cloud native production ready microservices with this comprehensive guide discover how to get the best out of spring cloud kubernetes and istio when used together book descriptionmicroservices architecture allows developers to build and maintain applications with ease and enterprises are rapidly adopting it to build software using spring boot as their default framework with this book you ll learn how to efficiently build and deploy microservices using spring boot this microservices book will take you through tried and tested approaches to building distributed systems and implementing microservices architecture in your organization starting with a set of simple cooperating microservices developed using spring boot you ll learn how you can add functionalities such as persistence make your microservices reactive and describe their apis using swagger openapi as you advance you ll understand how to add different services from spring cloud to your microservice system the book also demonstrates how to deploy your microservices using kubernetes and manage them with istio for improved security and traffic management finally you ll explore centralized log management using the efk stack and monitor microservices using prometheus and grafana by the end of this book you ll be able to build microservices that are scalable and robust using spring boot and spring cloud what you will learn build reactive microservices using spring boot develop resilient and scalable

microservices using spring cloud use oauth 2 0 oidc and spring security to protect public apis implement docker to bridge the gap between development testing and production deploy and manage microservices using kubernetes apply istio for improved security observability and traffic management who this book is for this book is for java and spring developers and architects who want to learn how to break up their existing monoliths into microservices and deploy them either on premises or in the cloud using kubernetes as a container orchestrator and istio as a service mesh no familiarity with microservices architecture is required to get started with this book

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